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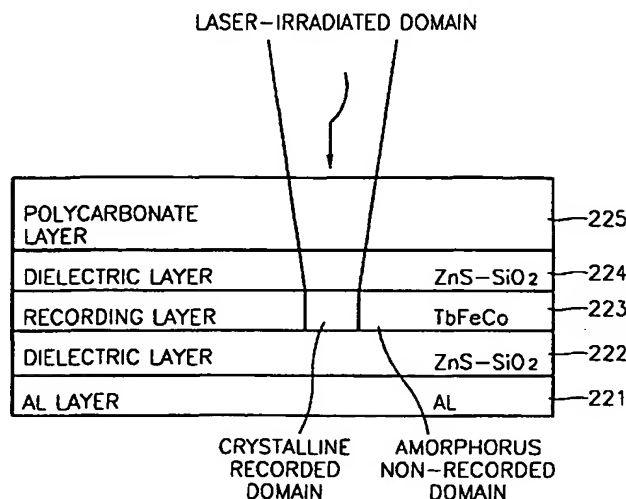
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(54) Title: **RECORDING METHOD USING REACTION AND DIFFUSION, RECORDING MEDIUM RECORDED ON USING THE RECORDING METHOD, AND RECORDING/REPRODUCING APPARATUS FOR THE RECORDING MEDIUM**



(57) Abstract: A phase change and/or magneto-optical recording method using laser induced reaction and diffraction in a recording layer and a dielectric layer of a recording medium, a recording medium recorded on using the method, and a recording and reproducing apparatus for the recording medium are provided. The phase change recording method involves changing absorption coefficients of optical constants of a recording layer and a dielectric layer of a recording medium by laser induced reaction and diffusion. The magneto-optical recording method involves changing the magnetization direction in a recording layer while the recording layer and a dielectric layer of a recording medium are irradiated with laser to induce reaction and diffusion therein. A recording method based on the physical properties of protruding record marks formed by laser induced reaction and diffusion in a recording layer and a dielectric layer is also provided.